

WHAT IS CLAIMED IS:

1. An applicator/dispenser assembly for dispensing and/or applying a polymerizable monomeric adhesive material, comprising:
 - a first body portion and a second body portion, at least one of the first and second body portions being movable relative to the other of the first and second body portions;
 - a cavity in at least one of the first and second body portions; and
 - a piercing or breaking member arranged on one of the first and second body portions,wherein movement of one of the first and second body portions relative to the other of the first and second body portions moves the piercing or breaking member into the cavity.
2. The applicator/dispenser according to claim 1, wherein the piercing or breaking member comprises at least two opposing members.
3. The applicator/dispenser according to claim 1, further comprising a container of adhesive material at least partially disposed within the cavity, wherein movement of one of the first and second body portions relative to the other of the first and second body portions moves the piercing or breaking member to rupture the container.
4. The applicator/dispenser according to claim 3, further comprising a second container having at least one opening, the second container surrounding the container of adhesive, wherein movement of one of the first and second body portions relative to the other of the first and second body portions moves the piercing or breaking member to rupture the container containing the adhesive without breaking the second container.
5. The applicator/dispenser according to claim 4, wherein the second container includes an open hole.
6. The applicator/dispenser according to claim 3, wherein the adhesive material comprises a polymerizable monomer adhesive material.
7. The applicator/dispenser according to claim 3, wherein the adhesive material comprises a polymerizable 1,1-disubstituted ethylene monomer formulation.
8. The applicator/dispenser according to claim 3, wherein the adhesive material comprises a cyanoacrylate formulation.

9. The applicator/dispenser according to claim 4, wherein the container is formed from a material that stabilizes the polymerizable monomeric adhesive material.

10. The applicator/dispenser according to claim 1, wherein at least a part of the at least one of the first and second body portions defining the cavity is formed from a material that stabilizes a polymerizable monomeric adhesive material.

11. The applicator/dispenser according to claim 10, wherein at least a part of the at least one of the first and second body portions defining the cavity is formed from a material that stabilizes a polymerizable monomeric adhesive material in the absence of a stabilizer being added to the adhesive material.

12. The applicator/dispenser according to claim 10, wherein the material that stabilizes a polymerizable monomeric adhesive material is a halogenated polymeric material.

13. The applicator/dispenser according to claim 12, wherein the halogenated polymeric material is selected from the group consisting of polyolefins, halogenated hydrocarbons, and engineered resins.

14. The applicator/dispenser according to claim 12, wherein the halogenated polymeric material is a fluorinated polymeric material.

15. The applicator/dispenser according to claim 1, wherein at least an inner surface of the cavity is coated with a material that stabilizes a polymerizable monomeric adhesive material.

16. The applicator/dispenser according to claim 1, wherein at least an inner surface of the cavity is impregnated with a material that stabilizes a polymerizable monomeric adhesive material.

17. The applicator/dispenser according to claim 1, further comprising a pivoting connection that movably connects the first and second body portions.

18. The applicator/dispenser according to claim 17, wherein the first and second body portions comprise a handle portion of the applicator/dispenser.

19. The applicator/dispenser according to claim 1, wherein the second body portion is rotatable relative to the first body portion.

20. The applicator/dispenser according to claim 19, further comprising:
a camming surface arranged on one of the first and second body portions other than the one of the first and second body portions on which the piercing or breaking member is arranged,

wherein rotation of the second body portion relative to the first body portion moves the piercing or breaking member into the cavity by contacting the camming surface and the piercing or breaking member.

21. The applicator/dispenser according to claim 20, wherein the piercing or breaking member comprises at least two opposing members and the camming surface comprises at least two corresponding surfaces.

22. The applicator/dispenser according to claim 1, further comprising:
a bladder disposed at least partially within the cavity, at least a portion of the bladder being flexible; and

a container of adhesive material disposed within the bladder and at least partially located in the cavity, wherein movement of one of the first and second body portions relative to the other of the first and second body portions moves the piercing or breaking member to rupture the container.

23. The applicator/dispenser according to claim 22, further comprising a plug member at least partially disposed in an opening of the bladder, the plug member being made of a material that is at least one of porous, absorbent and adsorbent in nature.

24. The applicator/dispenser according to claim 23, wherein the plug member comprises an applicator tip.

25. The applicator/dispenser according to claim 23, wherein at least one of a medicament, a polymerization initiator, a polymerization rate modifier and a stabilizer for a polymerizable monomer is in or on the plug member.

26. The applicator/dispenser according to claim 23, further comprising an applicator/dispenser tip that is attached to at least one of the plug member, the first body portion and the second body portion.

27. The applicator/dispenser according to claim 26, wherein the applicator/dispenser tip comprises one of a nozzle, a spatula, a rolling ball, a brush, and a swab.

28. The applicator/dispenser according to claim 26, wherein the applicator/dispenser tip is removable.

29. The applicator/dispenser according to claim 1, further comprising:
a slide assembly having a plunger portion that is at least partially disposed in the cavity and a slide portion that is at least partially disposed outside the

cavity, the slide assembly being slidably movable to move the plunder portion toward an dispensing opening of the cavity; and

an opening in at least one of the first and second body portions through which the slide portion of the slide assembly extends.

30. The applicator/dispenser according to claim 29, further comprising:
a container of adhesive material disposed in the cavity between the dispensing opening of the cavity and the plunger portion of the slide assembly, wherein movement of one of the first and second body portions relative to the other of the first and second body portions moves the piercing or breaking member to rupture the container and movement of the slide member moves the plunger portion to dispense the adhesive material from the cavity once the container is ruptured.

31. The applicator/dispenser according to claim 30, further comprising a plug member at least partially disposed in the dispensing opening of the cavity, the plug member being made of a material that is at least one of porous, absorbent and adsorbent in nature.

32. The applicator/dispenser according to claim 31, wherein the plug member comprises an applicator tip.

33. The applicator/dispenser according to claim 31, wherein at least one of a medicament, a polymerization initiator, a polymerization rate modifier and a stabilizer for a polymerizable monomer is in or on the plug member.

34. The applicator/dispenser according to claim 31, further comprising an applicator/dispenser tip that is attached to at least one of the plug member, the first body portion and the second body portion.

35. The applicator/dispenser according to claim 34, wherein the applicator/dispenser tip comprises one of a nozzle, a spatula, a rolling ball, a brush, and a swab.

36. The applicator/dispenser according to claim 34, wherein the applicator/dispenser tip is removable.

37. A kit comprising:
at least one applicator/dispenser of claim 1; and
a plurality of containers of adhesive material arranged to be placed at least partially in the cavity of the at least one applicator/dispenser, wherein movement of one of the first and second body portions relative to the other of the first and second

body portions moves the piercing or breaking member to rupture one of the containers that is placed at least partially in the cavity.

38. The kit according to claim 37, further comprising a plurality of removable applicator tips.

39. The kit according to claim 37, further comprising a polymerization initiator or rate modifier for the adhesive material.

40. The kit according to claim 37, wherein the adhesive material comprises a polymerizable monomer adhesive material.

41. The kit according to claim 37, wherein the adhesive material comprises a polymerizable 1,1-disubstituted ethylene monomer formulation.

42. The kit according to claim 37, wherein the adhesive material comprises a cyanoacrylate formulation.

43. The kit according to claim 37, wherein at least two of the plurality of containers contain different amounts of adhesive material.

44. The kit according to claim 37, wherein at least two of the plurality of containers contain a different adhesive material.

45. A method of applying/dispensing an adhesive material, comprising:
placing a container of adhesive material at least partially into the cavity of an applicator/dispenser according to claim 1;

moving one of the first and second body portions relative to the other of the first and second body portions to move the piercing or breaking member to rupture the container; and

dispensing the adhesive material from the cavity.

46. The method of claim 45, further comprising applying the dispensed adhesive material to a substrate to be bonded.

47. The method of claim 46, wherein the substrate to be bonded is tissue.

48. The method of claim 45, wherein moving one of the first and second body portions relative to the other of the first and second body portions comprises rotating one of the first and second body portions relative to the other of the first and second body portions.

49. The method of claim 45, wherein moving one of the first and second body portions relative to the other of the first and second body portions comprises pivoting one of the first and second body portions relative to the other of the first and second body portions.

50. The applicator/dispenser according to claim 1, further comprising at least one visual indicator on the first and second body portions that indicates movement of one of the first and second body portions relative to the other of the first and second body portions from an initial position.